Index to Feature Articles

Vol. 49, Jan-June 1959

Covers feature articles, Manuals, File Facts and the most important What's New in Materials (WNIM) articles.

Aluminum and its alloys
- Aluminum Alloy Resists 600 F (WNIM)—June, p 117
- Designing with Head Shapes Can Save You Money—June, p 77
- Headed Parts: What Materials to Use; How to Design Them—May, p 106
- High-Purity Aluminum Coatings, New—Feb, p 88
- Large Aluminum Extrusions Eliminate Joining (WNIM)—Apr, p 131
- Lightweight Materials Will Be Used in the Convair 880 Jet, How—Apr, p 100
- Sheet Metal in High Temperature Service, How to Get the Most from—May, p 116
- Wrought Al-Mg-Si and Al-Zn-Mg Alloys (File Fact)—May, p 147

Beryllium and its alloys
- Beryllium: A New Engineering Material—Mar, p 91

Castings
- Design Pointers for Investment Castings—Mar, p 110

Ceramics, cermets
- Carbide-Base Cermets, Why and Where to Use—Feb, p 79
- Cermets: Two New Forms—Apr, p 98
- Designing with Brittle Materials—Jan, p 82
- Ferrites Boost Computer Speed, New—May, p 136
- Fused Silica Shapes Have Good Thermal Shock Resistance (WNIM)—June, p 115
- Quartz, Silica Insulations Raise Temperature Limits of Coaxial Cables—May, p 125
- Sheet Metal in High Temperature Service, How to Get the Most from—May, p 116

Coatings, finishes
- Cermets: Two New Forms—Apr, p 98
- Diffusion Coatings (File Fact)—June, p 113
- Electroplates, Properties and Uses of (File Fact)—Feb, p 121
- Explosives; Shape, Fasten, Engrave, Test Materials with—Feb, p 82
- High-Purity Aluminum Coatings, New—Feb, p 88
- Molybdenum Coatings—Jan, p 76
- Organic Coatings for Metal Products (Manual)—Mar, p 113
- Plasma Arc Torch Fabricates Tough Materials (WNIM)—Mar, p 133
- Strippable Coatings Keep Products Bright, Clean, Safe—May, p 110
- TFE Films Can Be Sprayed on Wood, Rubber, Plastics (WNIM)—Jan, p 115
- Tough, Chemical Resistant Urethane Coatings—June, p 80

Cobalt and its alloys
- Right Materials Ease Maintenance of Nuclear Power Plants—Jan, p 73

Copper and its alloys
- Copper-Base Anodes Reduce Tube Power Input by 40%—May, p 132
- Designing with Head Shapes Can Save You Money—June, p 77
- Headed Parts: What Materials to Use; How to Design Them—May, p 106
- Metal Powder Structural Parts, Designing for (Manual)—Apr, p 113
- Wrought Cupro-Nickels (File Fact)—Apr, p 127

Extrusions
- Complex Tungsten Parts — New Forming Methods Make Them Practical—June, p 74
- Large Aluminum Extrusions Eliminate Joining (WNIM)—Apr, p 131

Fabrics, fibers
- High Temperature Fibers, Felts Now Made of Pure Graphite (WNIM)—May, p 149
- Potassium Titanate Fibers Insulate Well at 2200 F (WNIM)—Jan, p 117
- Webbing Materials—Apr, p 108

Films
- Polyester Film—How Long Does It Last?—Feb, p 94

Foams
- Urethane Foam Cuts Noise, Weight of Gas Turbine Section—May, p 128
- Urethane Foams, Where to Use—Jan, p 86

Forming
- Cermets: Two New Forms—Apr, p 98
- Complex Tungsten Parts — New Forming Methods Make Them Practical—June, p 74
- Explosives; Shape, Fasten, Engrave, Test Materials with—Feb, p 82
- High-Purity Aluminum Coatings, New—Feb, p 88
- Plasma Arc Torch Fabricates Tough Materials (WNIM)—Mar, p 133

Forgings
- Complex Tungsten Parts — New Forming Methods Make Them Practical—June, p 74
- Headed Parts: What Materials to Use; How to Design Them—May, p 106
- Magnesium Forgings Save Weight—Jan, p 92

General
- Explosives; Shape, Fasten, Engrave, Test Materials with—Feb, p 82
- Extrapolating Stress-Rupture Data, Which Method for?—Apr, p 93
- Impact Strength of Metals and Plastics (File Fact)—Mar, p 131
- Physical Properties and Tests (Manual)—June, p 91
- Right Materials Ease Maintenance of Nuclear Power Plants—Jan, p 73
- Sheet Metal in High Temperature Service, How to Get the Most from—May, p 116
- What Is Causing Your Service Failures?—May, p 101

Graphite
- Graphite: How It Compares with Metals and Ceramics—June, p 88
- High Temperature Fibers, Felts Now Made of Pure Graphite (WNIM)—May, p 149

Honeycomb
- Brazed Honeycomb Sandwich, Six Basic Design Rules for—Mar, p 100
- Brazed Steel Honeycomb Structures for 800 F—Apr, p 110

Irons
- Designing for Metal Powder Structural Parts (Manual)—Apr, p 113

Joining, fastening
- Adhesive Bonding of Titanium—Feb, p 96
- Brazed Steel Honeycomb Structures for 800 F—Apr, p 110
- Complex Tungsten Parts — New Forming Methods Make Them Practical—June, p 74
- Explosives; Shape, Fasten, Engrave, Test Materials with—Feb, p 82
- Glass-Metal Bond in Optical Device Withstands Liquid Oxygen—May, p 129
- Mechanical Fasteners with Reinforced Plastics, How to Use—June, p 84
- Welded Honeycomb Is Strong, Lightweight (WNIM)—June, p 117

Magnesium and its alloys
- Forgings Save Weight, Magnesium—Jan, p 92
- Sheet Alloy Needs No Stress Relieving, Magnesium (WNIM)—Mar, p 134
- Sheet Metal in High Temperature Service, How to Get the Most from—May, p 116

Metal powder parts
- Designing for Metal Powder Structural Parts (Manual)—Apr, p 113

Molybdenum and its alloys
- Coatings, Molybdenum—Jan, p 76

Nickel and its alloys
- Brazed Honeycomb Sandwich, Six Basic Design Rules for—Mar, p 100
- Designing for Metal Powder Structural Parts (Manual)—Apr, p 113
- Designing with Head Shapes Can Save You Money—June, p 77
- Headed Parts: What Materials to Use; How to Design Them—May, p 106
- Sheet Metal in High Temperature Service, How to Get the Most from—May, p 116

Nonferrous metals (see also aluminum, beryllium, cobalt, copper, magnesium, molybdenum, nickel, titanium, zirconium)
- Complex Tungsten Parts — New Forming Methods Make Them Practical—June, p 74
- Designing for Metal Powder Structural Parts (Manual)—Apr, p 113

Plastics (see also reinforced plastics)
- Clear Thermoplastic Resin Has Good Weatherability (WNIM)—Feb, p 124
- Design Tolerances for Plastics Moldings, Recommended (File Fact)—Jan, p 113
- Engineer's Guide to Plastics (Manual)—Feb, p 103

Index to Feature Articles

continued

Epoxy Molding Materials, The New —June, p 69
New Plastics Resins, Laminates Announced at SPI Meeting (WNIM)—Apr, p 134
New Resins, Sheets, Films Announced at Plastics Show (WNIM) —Feb, p 126
Organic Coatings for Metal Products (Manual)—Mar, p 113
Polyester Film—How Long Does It Last?—Feb, p 94
Polyvinyl Chloride Meets Tough Corrosion Requirements in Spray Etching Machine—May, p 126
Strippable Coatings Keep Products Bright, Clean, Safe—May, p 110
TFE Films Can Be Sprayed on Wood, Rubber, Plastics (WNIM) —Jan, p 115
TFE Molding, Extruding Resin (WNIM)—Mar, p 140
Urethane Foam Cuts Noise, Weight of Gas Turbine Inlet Section—May, p 128
Urethane Foams, Where to Use—Jan, p 86
What's New in Plastics for Engineering Uses—Apr, p 105

Reinforced plastics
Lightweight Materials Will Be Used in the Convair 880 Jet, How—Apr, p 100
Mechanical Fasteners with Reinforced Plastics, How to Use—June, p 84
New Plastics Resins, Laminates Announced at SPI Meeting (WNIM)—Apr, p 134
Quartz-Reinforced Plastics Keep Their Strength at 5000 F (WNIM)—Feb, p 123
Visual Standards for Reinforced Plastics—Mar, p 106
What's New in Plastics for Engineering Uses—Apr, p 105

Rubber
Hard Rubber for Low Cost Parts, Try—Mar, p 94
Highly Fluorinated Rubber May Compete with Viton (WNIM)—May, p 152
Nitrile Silicone Compounds Are Heat, Oil Resistant (WNIM)—Apr, p 129
Organic Coatings for Metal Products (Manual)—Mar, p 113

Stainless steels, superalloys
Brazed Honeycomb Sandwich, Six Basic Design Rules for—Mar, p 100
Brazed Steel Honeycomb Structures for 800 F—Apr, p 110
Designing for Metal Powder Structural Parts (Manual)—Apr, p 113
Designing with Head Shapes Can Save You Money—June, p 77
Headed Parts: What Materials to Use; How to Design Them—May, p 106
High Temperatures, Two Stainless Alloys for (WNIM)—Mar, p 135
How to Select a Stainless Steel (Manual)—Jan, p 95
Precipitation Hardening Steel (WNIM)—Jan, p 120
Right Materials Ease Maintenance of Nuclear Power Plants—Jan, p 73
Sheet Metal in High Temperature Service, How to Get the Most from—May, p 116
Superalloys for High Temperatures, Two New (WNIM)—May, p 150
Welded Honeycomb Is Strong, Lightweight (WNIM)—June, p 117

Steels (see also stainless steels)
Designing for Metal Powder Structural Parts (Manual)—Apr, p 113
Designing with Head Shapes Can Save You Money—June, p 77
Headed Parts: What Materials to Use; How to Design Them—May, p 106
High Strength, Low Alloy Steels for Special Uses (WNIM)—Feb, p 125
High Strength Mild Carbon Steels, Four (WNIM)—Jan, p 116
Right Materials Ease Maintenance of Nuclear Power Plants—Jan, p 73
Six Precautions in Using High Strength Steels—Feb, p 90
Stronger Carbon Steel Bars—Mar, p 98

Testing
Explosives; Shape, Fasten, Engrave, Test Materials with—Feb, p 82

Titanium and its alloys
Adhesive Bonding of Titanium—Feb, p 96
Designing for Metal Powder Structural Parts (Manual)—Apr, p 113
Designing with Head Shapes Can Save You Money—June, p 77
Five Titanium Alloys for Aircraft, Missiles—Mar, p 144
Sheet Metal in High Temperature Service, How to Get the Most from—May, p 116
Titanium Alloys Resist Reducing Acids (WNIM)—June, p 115

Wood
Low Cost Wood-Particle Moldings—May, p 103

Zirconium and its alloys
Right Materials Ease Maintenance of Nuclear Power Plants—Jan, p 73

Author Index

Belford, Richard B., Headed Parts: What Materials to Use; How to Design Them—May, p 106

Best, E. P., New Wrought Iron Has Better Corrosion Resistance—Feb, p 100

Birdsall, H. A. (see McMahon, W.)

Blizard, Jr., J. W. F., Beryllium: A New Engineering Material—Jan, p 91

Briggs, J. Z. (see Schultze, H. W.)

Burrows, Charles F., Brazed Steel Honeycomb Structures for 800 F—Apr, p 110

Camilli, C. T. (see McMahon, W.)

Campbell, John B., Physical Properties and Tests—June, p 91

Dougan, T. P., Where to Use Urethane Foams —Jan, p 86

Duckworth, Winston H., Designing with Brittle Materials—Jan, p 82

Engle, G. B., Graphite: How It Compares with Metals and Ceramics—June, p 88

Everhart, John L.
Designing for Metal Powder Structural Parts—Apr, p 113
How to Select a Stainless Steel—Jan, p 95

Fabian, Robert J.
Organic Coatings for Metal Products—Mar, p 113
Strippable Coatings Keep Products Bright, Clean, Safe—May, p 110

Faulkner, G. E. (see Pattee, H. E.)

Fleischmann, W. L., Right Materials Ease Maintenance of Nuclear Power Plants—Jan, p 73

Freeman, R. R. (see Schultze, H. W.)

Goldhoff, R. M., Which Method for Extrapolating Stress-Rupture Data?—Apr, p 93

Hargreaves, Gladys, Webbing Materials—Apr, p 108

Held, T. L., How Lightweight Materials Will Be Used in the Convair 880 Jet—Apr, p 100

Herz, William A., Cermets: Two New Forms —Apr, p 98

Johnson, G. R. (see McMahon, W.)

Kritzer, S. (see Utz, J. J.)

Liggett, L. M. (see Engle, G. B.)

Loria, Edward A., Six Precautions in Using High Strength Steels—Feb, p 88

McMahon, W., Polyester Film—How Long Does It Last?—Feb, p 94

Nachtman, E. S., Stronger Carbon Steel Bars —Mar, p 98

Ottey, Herbert A., Designing with Head Shapes Can Save You Money—June, p 77

Pattee, H. E., Adhesive Bonding of Titanium —Feb, p 96

Pearl, Harry A., How to Get the Most from Sheet Metal in High Temperature Service—May, p 116

Poss, Fred J., What Is Causing Your Service Failures?—May, p 101

Rechlin, Floyd F., Six Basic Design Rules for Brazed Honeycomb Sandwich—Mar, p 100

Rieppel, P. J. (see Pattee, H. E.)

Riley, Malcolm W.
Engineer's Guide to Plastics—Feb, p 103
The New Epoxy Molding Materials—June, p 69
What's New in Plastics for Engineering Uses—Apr, p 105

Sansone, R. S., Tough, Chemical Resistant Urethane Coatings—June, p 80

Schultze, H. W., Molybdenum Coatings—Jan, p 76

Severance, W. A. (see Smith, W. E.)

Smith, W. E., Visual Standards for Reinforced Plastics—Mar, p 106

Sweeney, W. O., Design Pointers for Investment Castings—Mar, p 110

Tardif, H. P., Shape, Fasten, Engrave, Test with Explosives—Feb, p 82

Twitchell, Frank A. (se Blizard, Jr., J. W. F.)

Utz, J. J., New High-Purity Aluminum Coatings—Feb, p 88

Wallis, Thomas E., Try Hard Rubber for Low Cost Parts—Mar, p 94

Watson, Donald A., Low Cost Wood-Particle Moldings—May, p 103

Weiss, Marshall D., How to Use Mechanical Fasteners with Reinforced Plastics—June, p 84

Wellborn, William W., Why and Where to Use Carbide-Base Cermets—Feb, p 79

Wilensky, Lester E., Magnesium Forgings Save Weight—Jan, p 92

Williams, S. L. (see Fleischmann, W. L.)

Yancey, R. W., Complex Tungsten Parts—New Forming Methods Make Them Practical —June, p 74

Index to Feature Articles

Feature articles, Manuals, File Facts and the most important What's New in Materials (WNIM) and Materials at Work (MAW) articles.

Adhesive bonding
- Adhesive Bonding (Manual) — Sept, p 111
- High Strength Adhesives, Three Major Types of—July, p 104
- Polyethylene to Glass, Adhesive Bonding (MAW)—Oct, p 12

Aluminum and its alloys
- Aluminum Cuts Weight, Cost of Redesigned Barber Chair (MAW)—Dec, p 12
- Die Castings (Manual)—Oct, p 113
- Fasten Aluminum with Aluminum Fasteners—Oct, p 85
- How Low Temperatures Affect Nine High Strength Alloys—Nov, p 106
- New 5XXX Aluminum Alloys—Strong and Weldable, The—July, p 91

Asbestos
- Materials for Gaskets, Packings and Seals (Manual)—Dec, p 111

Carbon, graphite
- Materials for Gaskets, Packings and Seals (Manual)—Dec, p 111

Castings
- Die Castings (Manual)—Oct, p 113
- Impregnants for Castings — Oct, p 102
- Large Steel Castings Cut Costs, Improve Design (MAW)—Dec, p 10
- Malleable Castings Simplify Redesigned Pinsetter (MAW)—Nov, p 12
- Strong, 'Flaw-Free' Castings (WNIM)—Nov, p 149

Ceramics, cermets
- Alumina Ceramic Is Translucent (WNIM)—Nov, p 143
- Engineering Materials: The Next Ten Years—Nov, p 110
- High Purity Fused Silica Produced in New Shapes, Sizes (WNIM)—Dec, p 133
- New Ways to Combat Corrosion—Sept, p 94
- Permanent Magnet Materials — July, p 108
- Silicon Carbide Foam Withstands 4000 F (WNIM)—July, p 136

Coatings, finishes
- Bituminous Coatings—Aug, p 100
- Die Castings (Manual)—Oct, p 113
- Duplex Electroplates Now Extend Corrosion Life, Two (WNIM)—Sept, p 136
- Engineering Materials: The Next Ten Years—Nov, p 110
- Furane Coatings—Oct, p 90
- High Density Polyethylene Coating Can Be Sprayed (WNIM)—July, p 135
- High Temperature Corrosion of Metals—Aug, p 110
- Impregnants for Castings — Oct, p 102
- Improved Metallic Coatings by Vacuum, Vapor Plating (WNIM)—Aug, p 132
- Magnetic Wire Enamel, Selecting a —Sept, p 102
- New Ways to Combat Corrosion—Sept, p 94
- One-Coat Porcelain Competes With Paint (WNIM)—Oct, p 139
- Porcelain Enamel Coatings for Small Parts (MAW)—Aug, p 10
- Rhodium Electroplates (File Fact)—Nov, p 141
- Small Tubing, Choosing Surface Finishes for—July, p 101
- Stainless-steel-pigmented paint (WNIM)—Dec, p 132
- Zinc and Cadmium Electroplates—Dec, p 100

Cobalt and its alloys
- Springs, Materials for (Manual)—Aug, p 115

Copper and its alloys
- Case of the Kettle That Wasn't Copper, The—Dec, p 93
- Die Castings (Manual)—Oct, p 113
- Silicon Bronzes—Nov, p 112
- Springs, Materials for (Manual)—Aug, p 115

Cork
- Materials for Gaskets, Packings and Seals (Manual)—Dec, p 111

Corrosion
- Case of the Kettle That Wasn't Copper—Dec, p 93
- High Temperature Corrosion of Metals—Aug, p 110
- How the New Propellants Affect Plastics and Elastomers—Sept, p 89
- New Ways to Combat Corrosion—Sept, p 94

Dielectrics (see also materials)
- Dielectric Constant of Nonmetallics (File Fact)—July, p 133
- Dielectric Strength of Nonmetallics (File Fact)—July, p 133
- Synthetic Fluid Dielectrics—Nov, p 99

Fabrics, fibers, felts
- Engineer's Guide to Industrial Textiles (Manual)—July, p 115
- Fiber Metallurgy—Dec, p 104
- Gaskets, Packings and Seals, Materials for (Manual)—Dec, p 111

Films
- Better Modulus Values for Low-Tensile Materials—Nov, p 119
- FEP Fluorocarbon Resin Film Has Good Electrical Properties (WNIM)—Dec, p 131
- Oriented Thermoplastic Sheet and Film—Dec, p 94

Filter materials
- High Temperature Filters, Selecting Materials for—Nov, p 108

Forming
- Close Tolerance, Complex Parts Made by Electrolytic Process (WNIM)—July, p 138
- Honeycomb Core Made by Chemical Milling Technique (WNIM)—Dec, p 136
- Magnesium Parts Can Keep Rolled Strength, Formed—Sept, p 92

General
- Engineering Materials: The Next Ten Years—Nov, p 110
- Let's Stop Over-Designing—Nov, p 118

Irons
- Malleable Castings Simplify Redesigned Pinsetter (MAW)—Nov, p 12
- Vacuum Melted Metals and Alloys —Why Use Them?—Aug, p 89

Joining, fastening (see also **Adhesive Bonding**)
- Fasten Aluminum with Aluminum Fasteners—Oct, p 85
- High Temperature Filters, Selecting Materials for—Nov, p 108
- Materials for 1200 F/5000 Psi—Dec, p 87
- New 5XXX Aluminum Alloys—Strong and Weldable, The—July, p 91
- 9% Nickel Steel Is Strong, Weldable, Easily Formed (WNIM)—Oct, p 135
- Properties of Bolts for Use at 1600F (File Fact)—Dec, p 129
- Riveting Plastics Is Fast, Economical (MAW)—Sept, p 12

Laminates
- Decorative Thermosetting Laminates—July, p 96
- Metal-Faced Plywood: Light but Rigid—Sept, p 99

Leather
- Materials for Gaskets, Packings and Seals (Manual)—Dec, p 111

Magnesium and its alloys
- Die Castings (Manual)—Oct, p 113
- Fiber Metallurgy—Dec, p 104
- Formed Magnesium Parts Can Keep Rolled Strength—Sept, p 92
- High Temperatures, Three Magnesium Alloys for (WNIM)—Aug, p 134
- How Low Temperatures Affect Nine High Strength Alloys—Nov, p 106
- Magnesium Cuts Weight, Improves Design (MAW)—Nov, p 10

Magnet materials
- Magnet Wire Enamel, Selecting a —Sept, p 102
- Permanent Magnet Materials—July, p 108

Molybdenum and its alloys
- Ductile Molybdenum Sheet Fabricated at Room Temperature (WNIM)—Sept, p 133

Nickel and its alloys
- Nickel Alloys Solve High Temperature Problems (MAW)—Sept, p 10
- Porous Nickel Shapes Are Large, Intricate (WNIM)—Sept, p 135
- Springs, Materials for (Manual)—Aug, p 115

Nonferrous metals (not listed elsewhere)
- Germanium Crystals Grown Ready for Immediate Use (WNIM)—Oct, p 133
- Materials for Gaskets, Packings and Seals (Manual)—Dec, p 111
- Permanent Magnet Materials—July, p 108

Plastics (see also **Reinforced Plastics**)
- ABS Resins and Methylstyrenes—Molded, Extruded (File Fact)—Aug, p 129

Index to Feature Articles

continued

Combat Corrosion, New Ways to—Sept, p 94
Engineering Materials: The Next Ten Years—Nov, p 110
Ethylene - Propylene Copolymer, Properties of (WNIM)—Aug, p 131
FEP Fluorocarbon Resin Film Has Good Electrical Properties (WNIM)—Dec, p 131
How the New Propellants Affect Plastics and Elastomers—Sept, p 89
Impact Thermoplastics: Which One to Use (Manual)—Nov, p 123
Materials for Gaskets, Packings and Seals (Manual)—Dec, p 111
Oriented Thermoplastic Sheet and Film—Dec, p 94
Polyethylene Copolymer Is Tough at Low Temperatures (WNIM)—July, p 137
Premix Plastics Moldings Cut Costs, Improve Design (MAW)—July, p 10
Reinforced TFE Plastics Resist Cold Flow, New—Oct, p 98
Short-Time Test Predicts Fatigue Strength of Plastics—Aug, p 98

Reinforced plastics
Engineering Materials: The Next Ten Years—Nov, p 110
New Ways to Combat Corrosion—Sept, p 94
Riveting Plastics Is Fast, Economical (MAW)—Sept, p 12

Rubber
Butyl Rubber Cures Fast, Resists Heat, Ozone, Chemicals (WNIM)—Oct, p 134
How the New Propellants Affect Plastics and Elastomers—Sept, p 89
Materials for Gaskets, Packings and Seals (Manual)—Dec, p 111
Mechanical Properties of Elastomers, How to Intrepret—Aug, p 105
Silicone Rubbers Are Easy to Process, Seven (WNIM)—Sept, p 134
Solid Urethane Elastomers—Oct, p 92

Spring materials
Materials for Springs (Manual)—Aug, p 115

Stainless steels, superalloys
High Temperature Filters, Selecting Materials for—Nov, p 108
Honeycomb Core Made by Chemical Milling Technique (WNIM)—Dec, p 136
How Low Temperatures Affect Nine High Strength Alloys—Nov, p 106
Materials for Gaskets, Packings and Seals (Manual)—Dec, p 111
Materials for 1200 F/5000 Psi—Dec, p 87
Modified 12% Chromium Steel Is Strong, Ductile at 1200 F (WNIM)—Nov, p 144
Springs, Materials for (Manual)—Aug, p 115
Vacuum Melted Metals and Alloys—Why Use Them?—Aug, p 89

Steels (see also **Stainless Steels**)
Cold Finished Steel Cuts Cost of Precision Parts—Sept, p 108
Large Steel Castings Cut Costs, Improve Design (MAW)—Dec, p 10
9% Nickel Steel Is Strong, Weldable, Easily Formed (WNIM)—Oct, p 135
Permanent Magnet Materials—July, p 108
Springs, Materials for (Manual)—Aug, p 115
Steel Strip Rolled from Powder (WNIM)—Aug, p 136
Vacuum Melted Metals and Alloys—Why Use Them?—Aug, p 89

Testing
Better Modulus Values for Low-Tensile Materials—Nov, p 119
Magnet Wire Enamel, Selecting a—Sept, p 102
Mechanical Properties of Elastomers, How to Interpret—Aug, p 105
Short-Time Test Predicts Fatigue Strength of Plastics—Aug, p 98
Surface Finishes for Small Tubing, Choosing—July, p 101

Titanium and its alloys
How Low Temperatures Affect Nine High Strength Alloys—Nov, p 106
New Ways to Combat Corrosion—Sept, p 94
Titanium Alloy Hardens Rapidly at 800 F (WNIM)—Nov, p 145
Titanium Alloy Has Highest Strength-Weight Ratio (WNIM)—Dec, p 133
Titanium Mill Products: Designations and Availability (File Fact)—Oct, p 131
Titanium Tubing Has Good Strength, Fabricability (WNIM)—Aug, p 131

Tubing
Inflatable Metal Tubing (WNIM)—Sept, p 138
New Ways to Combat Corrosion—Sept, p 94
Surface Finishes for Small Tubing, Choosing—July, p 101
Titanium Tubing Has Good Strength, Fabricability (WNIM)—Aug, p 131

Wire
Magnet Wire Enamel, Selecting a—Sept, p 102

Wood
Metal-Faced Plywood: Light but Rigid—Sept, p 99

Zinc and its alloys
Die Castings (Manual)—Oct, p 113
Zinc and Cadmium Electroplates—Dec, p 100

Zirconium and its alloys
New Ways to Combat Corrosion—Sept, p 94

Author index

Alexander, Stephen H., Bituminous Coatings—Aug, p 100

Axtell, Willard G., Formed Magnesium Parts Can Keep Rolled Strength—Sept, p 92

Black, James H., Choosing Surface Finishes for Small Tubing—July, p 101

Buckley, Robert L., Zinc and Cadmium Electroplates—Dec, p 100

Campbell, J. E. (see McGee, R. L.)

Carlson, R. L. (see McGee, R. L.)

Cheyney, D. R. (see Myer, R. T.)

Clark, F. M., Synthetic Fluid Dielectrics—Nov, p 99

Cunningham, Ray D. (see Alexander, Stephen H.)

Dalton, P. (see Fortner, C. P.)

Davis, L. U., Cold Finished Steel Cuts Cost of Precision Parts—Sept, p 108

Davis, Walter T., Decorative Thermosetting Laminates—July, p 96

Delmonte, John, Furane Coatings—Oct, p 90

Everhart, John L., Vacuum Melted Metals and Alloys—Why Use Them?—Aug, p 89

Fabian, Robert J.
Die Castings—Oct, p 113
Impregnants for Castings—Oct, p 102
Materials for Gaskets, Packings and Seals—Dec, p 111
Materials for 1200 F/5000 Psi—Dec, p 87
New Ways to Combat Corrosion—Sept, p 94
Permanent Magnet Materials—July, p 108

Fortner, C. P., Oriented Thermoplastic Sheet and Film—Dec, p 94

Greenman, Norman L., New Reinforced TFE Plastics Resist Cold Flow—Oct, p 98

Guare, C. J., High Temperature Corrosion of Metals—Aug, p 110

Hess, E. F., Three Major Types of High Strength Adhesives—July, p 104

Kloote, G. E., Metal-Faced Plywood: Light but Rigid—Sept, p 99

Lazar, L. S., Short-Time Test Predicts Fatigue Strength of Plastics—Aug, p 98

Lewis, Floyd A., Fasten Aluminum with Aluminum Fasteners—Oct, p 85

Manning, G. K.
Let's Stop Over-Designing—Nov, p 118
(also see McGee, R. L.)

McGee, R. L., How Low Temperatures Affect Nine High Strength Alloys—Nov, p 106

Merriam, Jack C., Adhesive Bonding—Sept, p 111

Milek, John T., Materials for Springs—Aug, p 115

Mowers, R. E., How the New Propellants Affect Plastics and Elastomers—Sept, p 89

Myer, R. T., The New 5XXX Aluminum Alloys—Strong and Weldable—July, p 91

Olsen, Oliver E., The Case of the Kettle That Wasn't Copper—Dec, p 93

Owens, J. K., Better Modulus Values for Low-Tensile Materials—Nov, p 119

Read, Robert H., Fiber Metallurgy—Dec, p 104

Riley, Malcolm W.
Engineer's Guide to Industrial Textiles—July, p 115
Impact Thermoplastics: Which One to Use—Nov, p 123
Solid Urethane Elastomers—Oct, p 92

Sattler, F. A., Selecting a Magnet Wire Enamel—Sept, p 102

Trunzo, F. F. (see Sattler, F. A.)

Wheeler, Jr., H. L., Selecting Materials for High Temperature Filters—Nov, p 108